## The

# National Geographic

Magazine

AN ILLUSTRATED MONTHLY



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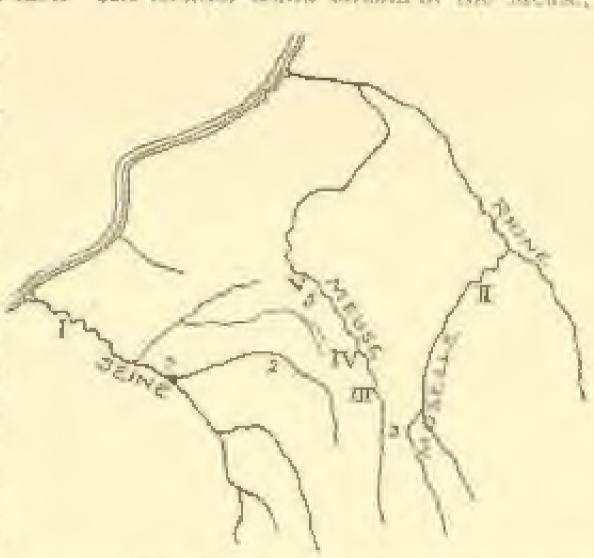
#### THE SEINE, THE MEUSE, AND THE MOSELLE

By WILLIAM M. DAVIS

Professor of Physical Geography in Harrard University

The three rivers.—The narrow basin of the Mense lies between the widespreading branches of the Seine on the west and of the Moselle on the east. The sheader trank stream of the Mense,

with hardly a tributary on cither side, is like one of those tall. close-trimmed poplars that the traveler often sees slong the national roads of France, and the comparison is not altogother inapt. for thurs is good reason to



Mouse that the proper of the Arabic numbers on this figure show the different mouse to be a forestone of the other figures med in this article. The Mousen really beauty

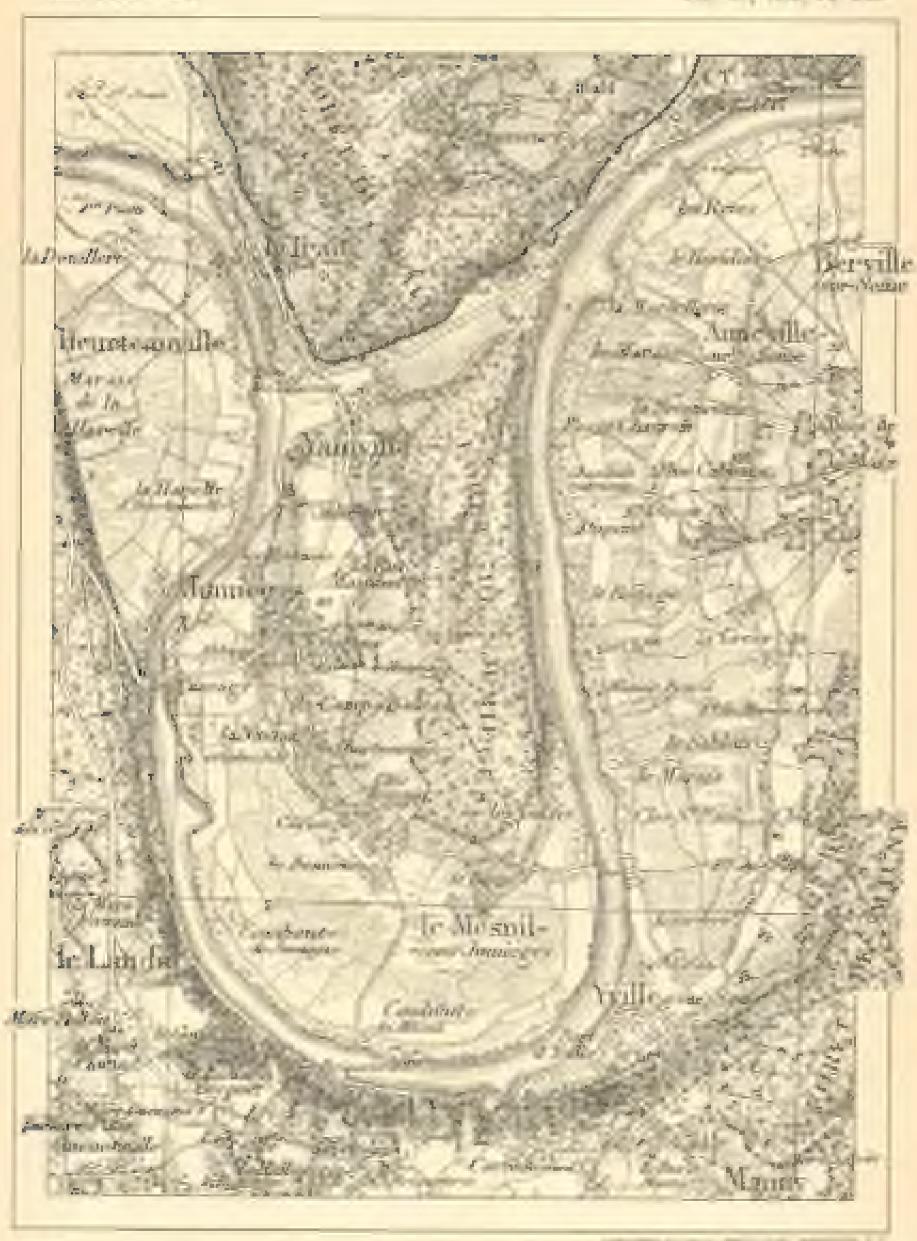
trimmed of certain branches which have been diverted to the basins of its larger neighbors. In basin is, indeed, like the

dwisdling toratory of a petry prince between the encroseling langulars of powerful rulers on either side. The evidence of this will appear when we examine the characteristics of the three rivers.

The eigenore meanders of the Seine. The Seine, after gathering in its upper teamches both above and below Paris, pursues a strongly meandering course to the sea. Its lower valley is sunk with rather steep sides in a comparatively even upland, which itself is a surface of dehudation. Although without complete proof on this point. I am led to suppose that this gently rolling oplical is an uplified penoplain -that is, a denuded region that was encoreduced to a surface of moderate relief close to its controlling baselevel, and then raised by some gentle process of elevation to its present altitude. During the development of the peneplain the Seine, the master river of the region, must have attained an extremely faint grade, and at the same time have taken on the habit of swinging from ade to side in comparatively regular curves or meant dees such as are characteristic of rivers with gentle slope. With the uplift of the region the meaniering river would proceed to because its channel beneath the uplifted surface, and thus Kamesy accounted for its positive intronched mounders many years ago. They seem to be features of old age retained in youth of the present cycle of denudation as an inheritance from an advanced stage of a proceeding eyels.

In the second cycle of denudation, now in progress, the balt of country inclosed by lines tangent to the outer meander curves of the Scine seems to have broadened to greater width than it possessed bears the uplit of the region occurred. The evidence of this is seen in the long doping descent of each longue of land which enters one of the river curves and from which the river seems to have receded, while the outer side of the swinging ourrent underoute a bluif of steep descent from the upland, as if the river were pressing against it. If the meandering river had cut down its channel vertically the slopes on the two sides of its present course should be symmetrical." The reason for the increased breadth of the meanuter bull appears to be in the mereased velocity given to the river in consequence of the uplift of the region. Many similar cases might be mentioned, but none show more clearly than the Scane the special features of an invigorated fiver. The great curves around which it swings fit in nuarly all cases close to the bluff on their outer side. It is an able-bedied river, a river of a robust limbit of life.

<sup>\*</sup> See poss by A. Winsson in Science, Into.



WHILEY OF THE SEINE, NEWS DUCKING SHOP IN, MARRIST PROPERTY A. SCHOOL ST. SCHOOL ST. SCHOOL ST.



The energy of the Site. Austreherte - Ned for below the city of Bouen and precisely at the small town of Duclair, on the north bank of the Seine, there is an interesting little occurrence strongly continuatory of the invigorated habit of the swinging river. Duelair is situated on the outer side of a large parth-turning meander. Into this porth-turning meander discounds a long sloping spur from the upland south of the river; east and west of Duchair similar long sloping spurs descend from the northern upland into the adjacent south-turning meanders. On looking closely at the map of the country or, still better, on looking over the region week from the top of the bluff at the back of the town, it is even that the western of the two northern apars is obliquely cut across by a narrow, dry, that-bottomed valley, which is just in continuation of the course of a little stream known as the Ste. Austreberte, coming from the northeast and mouthing in the Seine at Ducker. The dry valley was evidently at one time followed by the lower course of this stream, and it is still followed by the highway and the milway, for which it serves for a "shortcut" on their way down the Seine. (See Plate XXI.)

The question then arises, Why has the stream deserted so well properted a path? The answer is not far to seek. The change eridently occurred beganse the Duclair meander of the Seine pushed its inclosing blaff further and further north until the river cut through the ridge that separated it from the Ste. Anstroberte and thus tempted that stream to desert its lower course. This little fact, taken in connection with the slopes of the dovetailing spurs, fully justifies the opinion that the Seine is a most vigorous river, not only competent to swing around the curves of its former mounders, but demanding an increased radius for every curve, and thus widening its meander belt. Here and thors, it is true, the awinging course of the river departs somewhat irregularly from the round curves of its valley, as if the river had skrunk somewhat away from the strong curves which it once followed. This may perhaps be explained as the result of the diminishing velocity of the neur, new that it has cut its new valley deep below the adjacent upland and close to the coutroiting buselevel, but the trregularities are exceptional and they need not be further consucred. As a whole, the river may be regarded as an abla-bodied stream turning vigorously from curve to curve on its way to the sea."

the state of the fits. Apprentic type is found in the value of the Maron a chart contains below Mosain, where the Could Morin new judge the Naria at Inter-lay a fine forms and in the Print.

The robust habit of the Moselle. Let us next glanco at the lower course of the Moselle. Passing below its upper branching course and following it below Treves through the highlands to the Blane, we find here again a most surpentine ralley incised beneath the general upland of the region. Ascending from the valley bottom, which the travelor ordinarily follows, to the level of the inclosing upland, it is even more manifest here than in northwestern France that we have to do with an uplifted and welldissected penapiain. The surrounding region is one in which the rocks are greatly deformed, possessing all the characteristics of amountain structure, but few of the characteristics of mountain beight. Indeed, the upland between Treves and the Khine is one of the best examples of an uplifted peneplain that I have seen. The gently rolling surface shows little regard for the great diversity in the attitude of its rocks. Here and there it is still surmounted by low, linear eminences, such as the Idarwald and the Soonwald, following the strike of resistant quartzites. These I would call "monadaccks," taking the name from a typical residual monntain which surmounts the uplified peneplain of New England in southwestern New Humpshire.

Int how has the Moselle come to believe a meandering valley deeply incised in the proceptain? It is manifest, from what is now known concerning the geological development of land surfaces, that during the later stages of the demolstion of the middle Rhine highlands the streams of the region must have flowed idly along meandering courses with gentle slope in channels little below the surrounding surface; but at present the streams, and especially the master rivers of the region, have deeply incised courses inclosed by steep-soled ralleys. Clearly, then, the region has been uplifted since the demolstion of the penepiain and is now well entered in a second cycle of demolstion. The meanders developed in the later stages of the previous cycle of demolstion are inherited in the early stage of the previous cycle.

It is worth noting, however, that there seems to have been a panse during the general elevation of the region, for the valley of the Moselle may be described as a narrow, meandering trench cut in a wide-open, fint-bottomed trough, the trough being sunk well beneath the general surface of the adjacent upland. The same sequence of forms may be clearly recognized in the valley of the Rhine, particularly in the maghborhood of Bacharach, where the old river alluvium still lies on the floor of the uplifted trough, although the existing river trench is sunk several hun-





of the reg on to its present breakt was accomplished by two movements and that a larger interval of comparative rest followed the first movement than has yet classed an in the second but it must also be and retood that the Lass that has elapsed if in the first of these movements to the present day is very clott con passed to the hang of so of demadation down guided for ancient in unitages of the region wave worsed two to the gametral surface of the penchlion.

If a new alors which the Mosel show follows to its seepantine that the northern of a me-

here, as in the case of the Seine, the present which of the passioner

tog from the difference by the slopes of the interior spins and the steep blutts appears the moon the outer indo of the giver energy. The Moselle, like the rotus, swings around its curves with a rotality dell-lessic lines on, nowhere lossint of the count the rotality dell-lessic lines on, nowhere lossint of the count that counts with strong preserve on an exclude book.

The two enterflourbore there exists —At more more points the spines from the upland have very parpore necks through which the valies redway passes in "short-ent" function. And ough I have not found may example of the diverge n of a cole stream by the lateral growth of the river mean lone, yet noth a change in a numeral pasts over Pan for he where the radge between the Mondard the Artbach is red test to a very narrow measure. But it does appear that just above Remeasted the Mondard has played up at the Stee appearance. It is that the Searce that played up at the Stee Austreberte. The Moscow is thus point has no exceptione of a stronger course, but to the right and left of it use two soil statements by troughe of horsestion of upon above enter slopes case to the general triangle. I have the study of the maps at

termer necoders of the most, now absurbaned to favor of the most important entermediate course, and an inspection of the district on the ground has confirmed that below 1 presume the fact is well known to she leads of their and a shearth 1800 Plate NAIL)

Nothing end be now satisfactory than the agreement shown between the features of these abandonial mean fore an lof the

preses problematicities, by the

The real as of elevative as essentially the same in the several cases. The elevative as one the autendes of the triangle leve the contract return that the elevation of the fining selevation in the action of the contract the elevation of the ele

depose that the epith there are cheed on formal, rejecting into the section towards as a conferm, the eastern fraction of the matter or are reset to a paper to need to the wall the western the chart the more are a reset to the through withing against its outer bank that the company within against its outer bank that the company is because its own to the intervening apare. Perhaps have a ring to much or these to the order or are the ring to much or these to the order or are not a frequency or the matter than a ring to much or these to the order or are not as frequency or the matter than a ring to make the first order or are not as frequency or the matter of the matter or are not as frequency or the matter of the matter or are not as frequency or the matter of the matter or are not as frequency or are typed to the matter or are not as frequency or the matter or are not as frequency or are typed to the matter or are not as frequency or are typed to the matter or are not as frequency or and the matter of the matter or are not as frequency or are typed to the matter or are not as frequency or are typed to the matter or are not as frequency or are typed to the matter or are not as frequency or are not as freq

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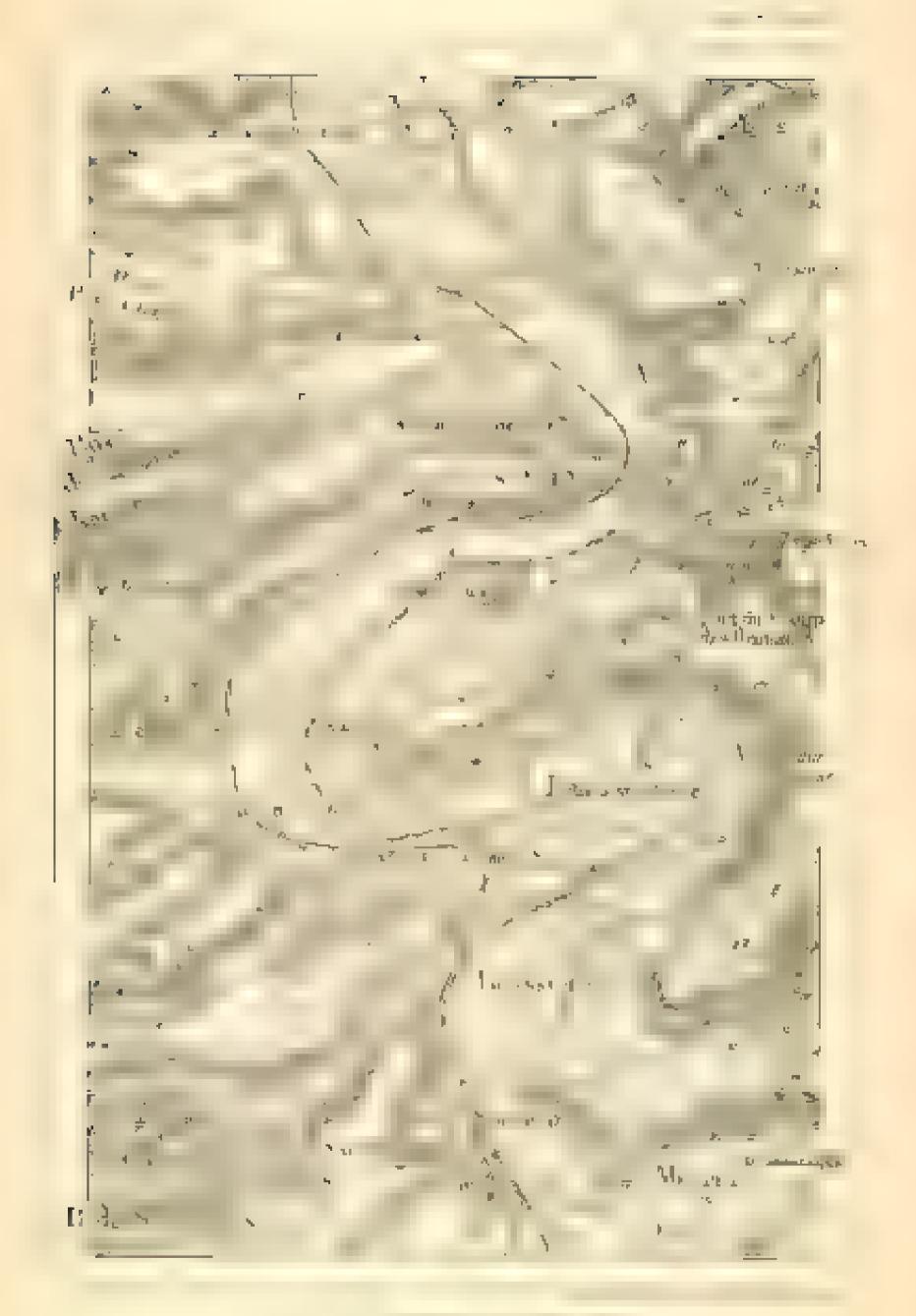
deserves on phases. They all indicate strong reconstron. The

rever, I see the Seine

The staggering Mesons—het us now back at the Meson. From some distance above tomatory, down stream as for as Ver an and myorid, this river, has the others, follows a well-defined mean-tering range, no sed becometh arbunds on and eractor. As before the super of the diada on the date should capture a the entirely steep, while he should capture a that make a continuous established going a distance of the interest, make Springs it Meson, one of the spars is all nost out the agh no be now consecred with its upon 11 year very therefore real low teck, which is dependently the flow teck, which is dependently the flow of a forture solo. The railway and entail both save solves of a forture spar is source year to rough. It have start is as no isolated by his arrows had on all so early the his valory flow?

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It is the ribet, then, that this we sy was excavated by a neer

and has Mossler but the a general reverthal was once here is now how he can be a fator. The thorrof the valley is at present one up or for the hast part by been hyper i mend we instead of by a free-sea many current of well-right or at the only a require to be found by a receivant current of well-right or at the require with most underton at a parent of the value, the vall y curves. It were so from that, we have to place, now touching this so of the outer, once that, we have right so now touching the stoop of the outer, once that, we have the spars, son of hos even contemp for posteriors desired year as slopes of the spars, son of hos even contemp for posteriors at estable up the valuey of its trees of path as it not then clear that there the time which the wife regional of water than a constant. The other conditions seems admission, and hence a reason for the loss of value to intest account to the reason for the loss of value as intest account to the Platon X XIII and X XIV.)

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noy change in the area of the adjacent framage bases. It is probable to, to a core, that they same of receives to it core rate on arrestice on a trace on the factor rate of the

Ly we will move in we or loss to one or loss to other as it wenthers away, on account of the ane-just rate of westing of no two mopes. The passi breakses of ane-just washag are vertices. The declivity of the two object may differ in make these the steep alone westes faster han the object. The day de is very alonely pass on toward the father slope. The rocks it identying the two slopes but no of inflatent resistance; the time weaker one will us a rate, whate near the faster and the a vide will replicably integrate toward the more resistant rocks. Apa a, the elements of cosmon party he of different notes as on the two elements one sie may have a greater a shall than the offer, of new suffer a greater a greater a shall than the offer, of new suffer a greater a greater a facility on the offer.

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of the two gives of the days to. Leaves and decreased the coupred discussed to Machania below hop to a appear course of that Innion aparent as an armost beautiful mounter that to little lakes at the head of the Magamano yanges, where these contest is energy in The special map of the Contests and he, put assed in 188, on a goale of a 250 years, and armost areas as es

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turns formed from staly at a distance. The example of the case for detail its of this kind.

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#### ACROSS THE GULF BY MALL TO KEY WEST

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could have grown up without to treat a received according to meet up with the state and confury of what is not pollatedly from a part. Indice, however, our vector is an excessingly superficial a secretar he will soon began to manage that it is not so make a matter of our rose that the ty has altan oil has great it growth me to a, with the natural advantages the seal of a propert has not began to greater. He will count that for liftly ears Key diest, as here he are suppressing as the most populous of vectors at that it owes is prosperty in a to any single industry, but to the diversity of its sources of revenue, the outgrowth

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we think the secret of its continuent prosperity. The season, the or relief secret, and the species are fallers and the wreaker, and the steves result of the creek makes and the machines. The trick to be fruit prower, at find a approprient in key were used the

manch of malustry, with the single majortant except on or rule condings ever has to abore on his trade on a week a well not in the there.

It is not bee fought to say that april the congletion of the North South. Its harbor, hand resed by took and keys, to

Which can float the largest slope of the Partod Saites Navy loss four entraces. The southwest passage has 34 feet of water on the lar, the main slope named 31 feet, the southwest 22 feet, and the northwest 14 feet. A vessel environt the lark riof key

before size or a discusper her course for her port of a estimation, and torough the main slope the well-saw would have only free more as the challenges was at seed. Samps putting int. Key West for stores of repairs coefficient of their course hat to raise, as a tractage possessed by no constraint in the United State. The torought is now a gaged in deepen ag the a stowest passage to 21 feet, and when this is so uplaced ships tending to

one of the real channess and passing one over the northwest bor, there are one 70 males pades with a the dangerous rects are one the Tortugas plants.

that Key best we with a a short time becomes as with he marketelly a rate on a new hard has noted the trend of rate real thick organ. If we have an deast. The ultimate or just of ad-

at an examine southern point, and Key West meets thesarequirenames to the in cest degree.

Ci I koen ear 3. C. Bacay for the International Ocean Tenergraph Company as long ago as 1860. General W. F. Sent 3, beaut k 2 wh me" ha dy" courts at that the prosident of the surpany, obtained from the Squareh Coverance that every corper. The company has a thirt extendent that two plane for reacting key West with as telegraph system. One contemp and a land the other with the Laceta Particle in the condition and thence by cabbe to key West; the of oral test motes into the condition to key. It was proposed to drive true passed at a condition to be keys. It was proposed to drive true passed at a condition to be waters expending the keys, and to exchet them about 10 feet above high-water track with whoden pales, and his Rocket 10 feet above high-water track with whoden pales, and his Rocket 10 feet above high-water

a reproad to key West, and embourer to his report to the com-

with the popular health what and not point would east. When the Western United Leagraph (our may obtained control of the

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The Estable from Key West to the point where a moroid would connect with the main and is a lout it is miles I bill establish the would be on the keys. The construction of a radioal form Key West to Bahin ill or a, an island as in as from to a

mould be compared by measurement. Where elemed of a few mobiles of vecetable to all and loose strings, the surface of the plants is as a vel and so not as a naturous floor. From her West to last a Houla the malron I would traverse Born thosa.

Pine Kee Bornes of these is arose short treates, ranging from one time treat yards to ball a more in the pith, would be necessary.

the possesser of trust og and making a schil som od. Net more t an seven feet of water has to be crossed until Edina for hard total a senched. This channel has a sweet West

of a male. The distance norms it being a lit is over a quarter of a male. Shore it would be necessary to have a translate, as the character used by the small vess is cruming along the coast.

The most Liberts and expensive portror of the read with the

the energy goods a noute early trades, but dotton along the proto-are myero, somet keys, surrem ted by ship low cars, where and you a build-raile or too re on an incress. Molances key hist careet your the route from his his flow la to Kinghts key. Letween Molasses Ker and Knights key the water is deep and bold, and if the real was earned in a court to a corety and it was alreass about his find a bill a of water vary as from 20 foot to 25 for this d pairs but by making a slight detour to the northward and treat og from M lasses Key to Pigern Kay, and from Pigeon Kee to Knights Kee, seen wat rwould brave had. Between he farmer an ofe less the Moser chan me had after bout traids doff P. Moses P. S. N., who because I take up his toner. Suppose where a late was a net y market years ago, and a forth in the start and to the costoner of Kn gate Key is the claimed who is began the names, over one is body of these area of there we ald be amother chill, bulge

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Grossy Key were reached. The rec there would be two and one-

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by a fortunate provision of authors there is actuated about 30 to be from Key West a large island known as fing Pino Key, a feet. All the courses over which the road would run are of corol be of from who are one to Javen and the soft corol pack. The phthouses along the known resince so construct it and stand-

nave whilst ion to be runs and cyclotics of forty years. I ver

oursels with a loss the knowledge of the and of read and running paracle with a loss the knowledge week, form again of reads break water from howey blocks to key West, and I protecting the read from high some even in the severest harries es. The common between the real and the keys are not over 12 feet seep, and he water in which the trestang would be in his won dhe common than that of any of our argo pro

Plackeys are all below the frost line. The mass.

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Now West as destricted to best on the Newport of the Scatt. At a rea the exceptions, year 1856 has one total scatter resentances 12° F. I for on the ow 44°, to for, the next in mid toxi-

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a time, except occasionally in the months of September and

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V. M. DAVIS.

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## SOCIETY, SESSION 1895-106

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Mayour Median, April 4, 1806. A cerPresident Countries to the chair Mr la set, T. Hall read a paper on the trees Country Case.

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Appetent Meeting, Lord 10, 1995. President Habbard in the chair. Mr. Nat. F. Mannes ad Jument the Son ay on Catha ne Sont of a War Correction. with his oriental at a sense one.

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the Colored pass to Lynd much, districting his address by means of a color to the Colored pass to Lynd much, districting his address by means of a color to pass to pass the colored distriction where the President supported that the color of the Colored much is being a first as a color port of two Lorden process of the color probably he are a countried toor process on America and antength the Mediaterintees.

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Special Manage, Vap & Best — President Maintain in the claim. Mr. towards by Landon and the paper, with far torophic self-self-market in a supplier on to astrophy in Provious Stanos.

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Wart I in May, 1808, Mr bly tournost, Gon. A. W. Creeky Wire, On Botto Buchard, Mr J. Hyer, Mr W. J. Metow, and Mr F. H. N. with

The secrety show elected the first excessions and point men members of the second of Monagers for a term of here years. Mr.C. J. ded Hon C. W. Dalmoy et , Fred Wes. H. Dun, Lo David T. Dav, Mr.C. K. Gd. Dert, at I Mr.H. D. David.

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#### GEOGRAPHIC NOTES

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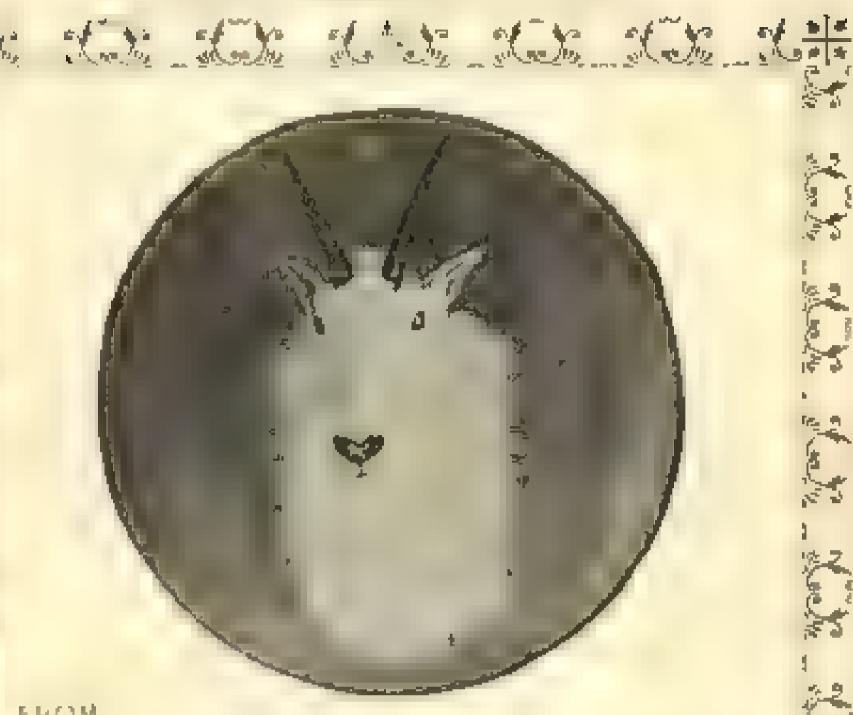
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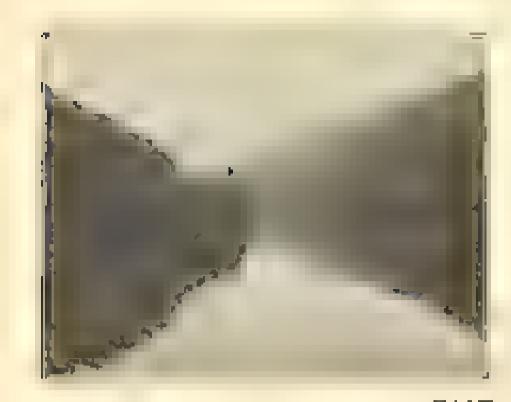
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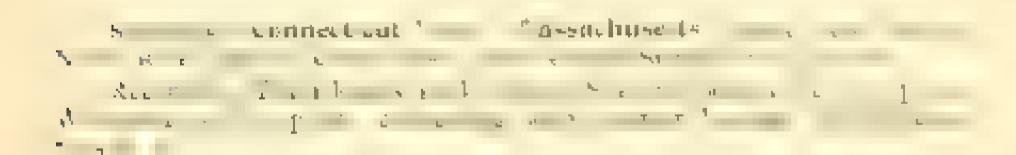


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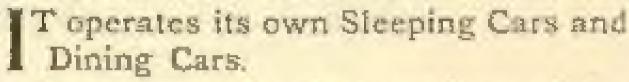


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